L O N G V I E W

INTRODUCTION

LONGVIEW turns a VisiCalc® spreadsheet on its side so that DOTWRITER can print it down the paper instead of across. It gives you the effect of a 400-character wide printer (or even longer, if your spreadsheet is that big).

LONGVIEW is an "add-on" to our Dotwriter system. It includes programs and three character sizes, and runs on 48K-84K TRS-80 Models I, III, and 4/4P (native M4 mode). It takes just three easy steps to use it:

1. Tell VisiCalc to print your spreadsheet to disk: /PDfilename
2. Run LONGVIEW to rotate the disk file;
3. Run DOTWRITER to print the rotated file.

EQUIPMENT AND SOFTWARE REQUIREMENTS

To prepare input to LONGVIEW, you will need a program that can write a "print image" of a spreadsheet to disk. VisiCalc does this, and is the spreadsheet for which LONGVIEW was written. You will also need a program that can print "bit-image" graphics, since the rotated letters and numbers must be printed sideways. Our DOTWRITER program does this, and the LONGVIEW distribution disk contains pre-defined files that set up DOTWRITER for this purpose.

> LONGVIEW DOES **NOT** INCLUDE DOTWRITER OR VISICALC. IT IS A UTILITY PROGRAM THAT PREPARES THE OUTPUT OF VISICALC FOR INPUT TO DOTWRITER. YOU MUST PURCHASE VISICALC AND DOTWRITER SEPARATELY, IF YOU DO NOT ALREADY HAVE THEM. RADIO SHACK SELLS VISICALC, AND PROSOFT SELLS DOTWRITER.

You also will need a TRS-80 Model I, III, 4 or 4P, with 48K or 64K of memory, two disk drives, a DOS (not CP/M), and a printer. DOTWRITER, not LONGVIEW, does the printing, and it only works with the printers listed below; other printers probably will **NOT** work, even if they claim to be compatible with one of these. If your printer is not on this list, the entire risk of making it work with DOTWRITER lies with you, not with us.

EPSON	C. ITOH	Radio Shack
MX-80, Graftrax-80	8510A, 8510S, 8510SP	DMP 105, 110, 120, 200,
MX-80, Graftrax-plus	1550, 1550S, 1550SP	400, 420, 430, 500, 520
MX-100, Graftrax	8800B	CGP-220
MX-100, Graftrax-plus		
RX-80, RX-100	OKIDATA MICROLINE	GEMINI
FX-80, FX-100	ML 84 Stage II only	10X, 15X (not 10 or 15)
LQ-1500	ML 92, 93; no Plug-n-Play	

MAXIMUM SPREADSHEET SIZES

When you print a spreadsheet with VisiCalc, there are two physical limitations: the available memory on your computer limits the number of cells you can use, and the width of your paper limits the number of columns you can print. At 16 characters per inch (cpi), you can fit 132 characters on 8 inch paper, and perhaps 230 on wide paper.

When you rotate a spreadsheet with LONGVIEW, you probably will not run into memory limitations unless you have developed a very large spreadsheet with the 128K version of Model 4 VisiCalc. If this applies to you, please read the next paragraph.

LONGVIEW's capacity on the Model 4 is about 50,000 characters or 195 sectors of disk space. To find the size of your spreadsheet, run VisiCalc, tell it to print the entire spreadsheet to disk: "/PDfilename", and then display the disk directory to see if the print-image file is within our 195-sector limit. (Our Model I/III limit is about 40,000 characters or 156 sectors, but VisiCalc doesn't have enough memory to create a spreadsheet of that size.)

The size of a rotated spreadsheet is limited by the number of _rows_ that fit across the paper. This depends on the typeface, the printer, and the paper width. We have included three typeface sizes: the smallest gives you the greatest printing capacity but is harder to read. Some printers have more graphics dots per inch than others and therefore offer the highest "row" capacity. Finally, more rows fit across 13 inch paper than 8 inch paper.

The chart below summarizes the maximum number of rows you can print with a rotated spreadsheet, using our recommended settings. If one of the supported printers is not on the list, please see one with the same number of dots/inch.

| Printer | Dots/ inch | Inches | Dots | <--- Typeface (dot height) ---> | | |
				TALL	NORM	TINY
CI 1550	160	13.6	2176	120 max.	136 max.	181 max.
CI 1550	136	13.6	1849	102 rows	115 rows	154 rows
CI 8510	160	8.0	1280	71	80	106
CI 8510	136	8.0	1088	60	68	90
MX-100	120	13.6	1560	86	97	130
MX-80	120	8.0	960	53	60	80
DMP 400	100	13.8	1360	75	85	113
DMP 200	100	8.0	800	44	50	66
CGP 220	80	7.5	600	33	37	50
ML 93	72	13.6	979	54	61	81
ML 92	72	8.0	576	32	36	48
DMP 2100	60	13.6	816	45	51	68

"Dots/inch" shows how closely each printer spaces graphics dots on a line.
"Inches" is maximum paper width.
Dots is the maximum possible number of dots per line.
"TALL", "NORM", and "TINY" refer to the three typefaces we have included.

If you already own DOTWRITER, adding LONGVIEW is as easy as adding another font disk, one that includes the file rotation program and pre-defined setups. However, if this will be your first experience with DOTWRITER, you are in for a wonderful treat! It can do many other things besides rotated spreadsheets, and you can take advantage of its ability to print signs, posters, headings, and even letters and books.

PRICE AND ORDERING INFORMATION

LONGVIEW (TRS-80 I, III, 4, and 4P) $29.95
    does not include Dotwriter or VisiCalc
DOTWRITER (TRS-80 I/III or 4/4P)   99.95
    specify computer, model, and printer
Shipping (U.S. and Canada)   3.00
    Please add sales tax in California

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